DECLARATION, PETITION ÁND POWER OF ATTORNEY FOR PATENT APPLICATION

Attorney Docket No: SAM-130

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

	on the inve	ntion entitled:								
	NAND-TYPE FLASH MEMORY DEVICES AND METHODS OF FABRICATING THE SAME									
	the specific	eation of which (check only one):								
	<u>x</u>	is attached hereto.								
		was filed as United States Patent Application								
		Serial No.								
		on								
		and was amended								
		on								
	·	(if applicable) was filed as PCT Patent Application								
		Serial No.								
		on								
	•	and was amended under PCT Article 19								
		on (if applicable)								
٠		tate that I have reviewed and understand the contents of the specification, including the claims as by any amendment referred to herein.								
		edge the duty to disclose information which is material to the examination of this application in we with Title 37, Code of Federal Regulations, §1.56.								
•	patent or i the United inventor's States of	I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:								
	PRIOR I	FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119:								

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119:								
COUNTRY (if PCT indicate PCT)	APPLICATION NUMBER		PRIORITY CLAIMED UNDER 35 U.S.C. § 119 (YES/NO)					
Republic of Korea	2000-02039	17 January 2000	YES					
L			L					

Page 1 of 3

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DECLARATI	ON, PETITION AN JPOWER OF A APPLICATION	TTORNEY FOR PAT	ENT	Attorney Docket No: SAM-130			
I hereby clai	m the benefit under Title 35, United Sta	ates Code, §119(e) of ar	y United State	es provisional application(s)			
• PRIOR U.S	S. APPLICATIONS FOR BENEFIT	UNDER 35 U.S.C. §	119(e):				
A	PPLICATION NUMBER		FIL	ING DATE			
internationa subject matt provided by information	im the benefit under Title 35, United I application(s) designating the United of the claims of this application the first paragraph of Title 35, United as defined in Title 37, Code of Feder plications and the national or PCT into	d States of America the ion is not disclosed in the I States Code, § 112, I a al Regulations, § 1.56	nat is/are liste nat/those prior ncknowledge which occurre	d below and, insofar as the application(s) in the manner the duty to disclose material ed between the filing date of			
	S. APPLICATIONS OR PCT INTER EFIT UNDER 35 U.S.C. § 120:	RNATIONAL APPLI	CATION(S)	DESIGNATING THE U.S.			
	CATION NUMBER	DATE OF FILIN	G S1	TATUS: (PATENTED, PENDING			
	PCT indicate PCT)	(day, month, year		R ABANDONED)			
<u> </u>							
	Stevens Reg. No. 24,445 . Connors Reg. No. 33,298	atent and Trademark O Patrick Arlene J Steven I	ffice connecte J. O'Shea . Powers	Reg. No. 35,305 Reg. No. 35,985 Reg. No. 36,610			
Steven M. Samuels, C 225 Frankl	authier & Stevens LLP in Street	Direct Telephone Calls to: Steven M. Mills, Esq. (617) 426-9180 Ext. 149 (617) 426-2275 (facsimile)					
Wherefore attached sp foregoing of I hereby do informatio willful fals of Title 18	Wherefore I petition that letters patent be granted to me for the invention or discovery described and claimed in the attached specification and claims, and hereby subscribe my name to said specification and claims and to the foregoing declaration, power of attorney, and this petition. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.						
Signature	Shin Kwang Shik		Date 18	7. Sep. 2000			
Full Name of 1st Inventor	Family Name Shin	First Given Name Kwang-Shik		Second Given Name			
Residence & Citizenship	City . Seoul	State or Foreign Country Republic of Korea		Country of Citizenship Republic of Korea			
Post Office Address	Post Office Address 202, Samwoo Villa, 306-52, Shinrim 10-dong, Kwanak-ku	Seoul		State & Zip Code/Country Republic of Korea			

DECLARA	TION, PETITION A. POWER OF A	ATTORNEY FOR PA	TENT	Attorney Docket No: .SAM-130
Signature	K. C. Park		Date 18	Sep. 2000 -
Full Name of 2 nd Inventor	Family Name Park	First Given Name Kyu-Charn		Second Given Name
Residence & Citizenship	City Pyoungtaek-shi, Kyunggi-do	State or Foreign Country Republic of Korea		Country of Citizenship Republic of Koreá
Post Office Address	Post Office Address 3-1106, Life Apt., 464, Dokgokdong, Songtan Jiyeok	City Pyoungtaek-shi, Ky	unggi-do	State & Zip Code/Country Republic of Korea
Signature	Oh, Heing Kurua	Date		18 Sep. 2000
Full Name of 3rd Inventor	Family Name Oh	First Given Name Heung-Kwun		Second Given Name
Residence & Citizenship	^{City} Kwonsun-ku, Kyunggi-do	State or Foreign Country Republic of Korea		Country of Citizenship Republic of Korea
Post Office Address	Post Office Address 102-803, Samik 1 cha Apt., Geumgok-dong	Kwonsun-ku, Kyunggi-do		State & Zip Code/Country Republic of Korea
Signature	Hur, Lunghoù		Date	18 Sep 2000
Full Name of Hur Residence & City Seoul		First Given Name Sung-Hoi		Second Given Name
		State or Foreign Country Republic of Korea		Country of Citizenship Republic of Korea
Post Office Address	Post Office Address 5-602, Yoksam Hanshin Apt., Dogok 1-dong, Kangnam-ku	City Seoul		State & Zip Code/Country Republic of Korea

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Kwang-Shik Shin, et al.

Filing Date:

Herewith

Serial No.:

Divisional of U.S. Serial No. 09/678,917

Title:

NAND-TYPE FLASH MEMORY DEVICES AND METHODS OF

FABRICATING THE SAME

CERTIFICATE OF MAILING UNDER 37 C.F.R.§ 1.10

"Express Mail" Mailing Label Number EV058991397US I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to BOX PATENT APPLICATION, Assistant Commissioner for Patents, Washington, DG 20231.

3-1-02

Date

BOX PATENT APPLICATION

Assistant Commissioner for Patents

Washington, DC 20231

NOTICE OF CHANGE IN POWER OF ATTORNEY AND CORRESPONDENCE ADDRESS

Sir:

The correspondence address in the divisional application filed herewith should be as follows:

SEND CORRESPONDENCE TO:

DIRECT TELEPHONE CALLS TO:

Steven M. Mills, Esq.

Mills & Onello LLP

Eleven Beacon Street, Suite 605

Boston, Massachusetts 02108

Steven M. Mills, Esq.

(617) 994-4900

Applicant(s): Kwang-Shik Shin, et al.

The power of attorney and correspondence address were changed to the above in U.S. application serial number 09/678,917, the parent of the present divisional application. Copies of the documents effecting the change in power of attorney and correspondence address in the parent application are enclosed.

Date: 2/1/02

Mills & Onello LLP

Eleven Beacon Street, Suite 605

Boston, MA 02108

Telephone: (617) 994-4900 Facsimile: (617) 742-7774

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Respectfully submitted,

Steven M. Mills

Registration Number 36,610 Attorney for Applicants

PATENT

Attorney Docket No.: SAM-009

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Serial No.:

Kim

Issue Date: 10/26/99

Filing Date: 4/22/98

U. S. Patent No.:

5,973,329

09/062,314

Title:

Ion Generating Apparatus for Semiconductor Manufacturing Equipment

Including Magnetic Field Switching Apparatus

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Post Office as First Class Mail on the date indicated below in an envelope addressed to Assistant Commissioner for Patents, Washington, DC 20231.

July 18, 2001

Comisom of make

Assistant Commissioner for Patents Washington, D.C. 20231

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
WITH REVOCATION OF PRIOR POWERS AND
CERTIFICATION UNDER 37 CFR 3.73(b)
FOR A PLURALITY OF PATENT APPLICATIONS AND PATENTS

Sir:

Samsung Electronics Co., Inc., the assignee of record of the entire interest of the U.S. patent applications identified in Table 1 below and the issued U.S. patents identified in Table 2 below, hereby revokes all powers of attorney previously given and hereby grants new powers of attorney to the following attorney(s) and/or agents, all of the firm Mills & Onello, LLP, Eleven Beacon Street, Suite 605, Boston, Massachusetts, to prosecute and transact all business in the Patent and Trademark Office connected therewith.

Steven M. Mills - 36,610

Anthony P. Onello, Jr. - 38,572

SEND ALL CORRESPONDENCE AND DIRECT ALL TELEPHONE CALLS IN CONNECTION WITH ALL OF THE APPLICATIONS AND PATENTS TO:

Mills & Onello, LLP Eleven Beacon Street, Suite 605 Boston, Massachusetts 02108 Telephone: (617) 994-4900

Facsimile: (617) 742-7774

Table 1: U.S. Patent Applications

Serial Number	Date	Assignment Recordation Date	Reel	Frame	Attorney Docket Number
09/009,211	1/20/98	6/29/98	9320	0888	SAM-001
09/512,128	2/24/00	4/24/00	010775	0511	SAM-003
60/121,764	2/26/99	4/26/99	9913	0053	SAM-003PR
09/714,392	11/16/00				SAM-008CIPDIV
09/560,359	4/28/00				SAM-008DIV
09/072,280	5/4/98	5/4/98	9159	0911	SAM-010 ·
09/082,170	5/20/98	5/20/98	9189	0228	SAM-012
09/757,747	1/10/01				SAM-013DIV
09/060,242	4/14/98	7/13/98	9316	. 0800	SAM-016
09/174,394	10/14/98	10/14/98	9522	0115	SAM-020
09/082,353	5/20/98	5/20/98	9189	0203	SAM-023
09/089,525	6/3/98	8/17/98	9391	0247	SAM-024
09/140,152	8/26/98	8/26/98	9415	0385	SAM-025
09/103,430	6/24/98	9/24/98	9474	0839	SAM-034
09/162,267	9/29/98	3/22/99	9836	0661	SAM-038
60/090,137	6/22/98	·			SAM-038PR
09/198,230	11/23/98	11/23/98	9606	0518	SAM-041
09/847,639	5/2/01		·		SAM-041DIV
09/139,921	8/26/98	10/30/98	9568	0238	SAM-042
09/195,893	11/19/98	11/19/98	9606	0616	SAM-043
09/205,545	12/3/98	1/22/99	9932	0332	SAM-048
09/135,288	8/17/98	10/22/98	9545	0535 °	SAM-049
09/182,358	10/29/98	3 10/29/98	9563	0887	SAM-052
09/153,169	9/15/98	12/10/98	9637	0972	SAM-053

Table 1: U.S. Patent Applications (cont.)

Serial Number	Filing Date	Assignment Recordation Date	Reel	Frame	Attorney Docket Number
09/175,088	10/19/98	10/19/98	9523	0430 .	SAM-054
09/841,652	4/24/01				SAM-054DIV
09/187,396	11/6/98	11/6/98	9573	0096	SAM-056
09/251,539	2/17/99	7/12/99	010077	0234	SAM-059
09/189,192	11/10/98	1/12/99	9687	0858	SAM-060
09/195,591	11/18/98	11/18/98	9597	0721	SAM-061
09/298,732	4/23/99	4/23/99	9920	0244	SAM-065
09/300,924	4/28/99	4/28/99	9928	0356	SAM-066
09/316,595	5/21/99	5/21/99	009982	0957	SAM-067
09/313,486	5/17/99	5/17/99	009979	0735	SAM-068
09/273,643	3/23/99	3/23/99	9850	0209	SAM-069
09/296,218	4/22/99	4/22/99	9914	0014	SAM-070
09/311,327	5/13/99	5/13/99	009963	0028	SAM-071
09/351,092	7/9/99	7/9/99	010099	0957	SAM-072
09/298,652	4/23/99	4/23/99	9921	0433	SAM-073
09/349,372	7/8/99	7/8/99	010094	0479	SAM-075
09/344,602	6/25/99	6/25/99	010065	0524	SAM-076
09/354,247	7/15/99	7/15/99	010102	0830	SAM-079
09/449,147	11/24/99	11/24/99	010412	0516	SAM-080
09/478,162	1/5/00	1/5/00	010497	0292	SAM-081
09/490,035	1/21/00	1/21/00	010549	0769	SAM-084
09/819,448	3/28/01	·			SAM-084DIV
09/479,602	1/7/00	1/7/00	010534.	0415	SAM-085
09/441,860	11/17/99	7/17/00	010978	0001	SAM-086

Table 1: U.S. Patent Applications (cont.)

		•		•	
Serial Number		Assignment Recordation Date	Reel	Frame	Attorney Docket Number
09/695,341	10/24/00	10/24/00	011265	0976	SAM-087
09/782,116	2/13/01				SAM-087CIP
60/161,479	10/25/99				SAM-087PR
09/477,235	1/4/00	1/4/00	010517	0574	SAM-088
09/514,744	2/28/00	2/28/00	010642	0839	SAM-090.
09/481,158	1/12/00	1/12/00	010500	0180	SAM-091
09/539,138	3/30/00	3/30/00	010709	0413	SAM-092
09/525,730	3/14/00	3/14/00	010694	0722	SAM-093
09/492,589	1/27/00	.1/27/00	010551	0374	SAM-094
09/538,879	3/30/00	3/30/00	010713	0341	SAM-095
09/524,069	3/13/00	3/13/00	010670	0441	SAM-096
09/521,904	3/9/00	3/9/00	010670	0702	SAM-097
09/484,974	1/18/00	1/18/00	010542	0081	SAM-098
09/476,567	1/3/00	1/3/00	010521	0391	SAM-099
09/513,796	2/25/00	2/25/00	010643	0359	SAM-100
09/620,666	7/20/00	7/20/00	010989	0239	SAM-103
09/513,712	2/25/00	2/25/00	010636	0802	SAM-104
09/645,285	8/24/00	8/24/00	011059	0830	SAM-105
09/639,833	8/16/00	8/16/00	011050	0151	SAM-106
09/491,383	1/26/00	1/26/00	010554	0267	SAM-107
09/481,251	1/11/00	4/5/00	010730	0275	SAM-108
09/677,029	9/29/00	9/29/00	011168	0092	SAM-109
09/552,424	4/19/00	4/19/00	010759	0475	SAM-110
09/630,292	8/1/00	8/1/00	010985	0936	SAM-111

Table 1: U.S. Patent Applications (cont.)

Serial Number	Date	Assignment Recordation Date	Reel	Frame	Attorney Docket Number
09/553,537	4/20/00	7/27/00	011004	0043	SAM-112
09/532,178	3/20/00	3/20/00	010687	0180	SAM-113
09/528,676	3/20/00	7/24/00	010985	0276	SAM-114
09/546,131	4/10/00	4/10/00	010732	0862	SAM-115
09/520,862	3/7/00	3/7/00	010661	0869	SAM-116
09/595,847	6/16/00	6/16/00	010908	0541	SAM-117
09/612,072	7/7/00	7/7/00	010954	0259	SAM-118
09/522,426	3/9/00	3/9/00	010659	0458	SAM-119
09/525,559	3/15/00	3/15/00	010658	0257	SAM-120
09/724,152	11/28/00	11/28/00	011297	0088	SAM-121
09/610,498	7/5/00	7/5/00	010951	0546	SAM-122
09/632,903	8/4/00	8/4/00	011033	0398	SAM-123
09/566,346	5/8/00	5/8/00	010789	0198	SAM-124
09/679,669	10/5/00	10/5/00	011162	0374	SAM-125
09/633,366	8/7/00	8/7/00	011062	0911	SAM-126
09/631,590	8/3/00	8/3/00	011038	.0576	SAM-127
09/640,851	8/17/00	8/17/00	011054	0564	SAM-128
09/634,058	8/9/00	8/9/00	011063	0146	SAM-129
09/678,917	10/4/00	10/4/00	011162	0385	SAM-130
09/575,994	5/23/00	5/23/00	010863	0087	SAM-131
09/658,099	9/8/00	9/8/00	011095	0928	SAM-132
09/629,956	8/1/00	8/1/00	011039	0160	SAM-133
09/737,540	12/15/00	12/15/00	011384	0052	SAM-134
09/670,468	9/26/00	9/26/00	011138	0910	SAM-135

Table 1: U.S. Patent Applications (cont.)

Serial Number	Filing Date	Assignment Recordation Date	Reel	Frame	Attorney Docket Number
09/660,571	9/13/00	9/13/00	011090	0974	SAM-136
09/742,030	12/20/00	12/20/00	011405	0598	SAM-137
09/642,995	8/21/00	8/21/00	011040	0097	SAM-138
09/761,618	1/16/01	1/16/01	011483	0359	SAM-139
09/724,151	11/28/00				SAM-140
09/672,924	9/28/00	1/11/01	011420	0392	SAM-141
09/637,981	8/11/00	8/11/00	011036	0532	SAM-142
09/666,218	9/21/00	9/21/00	011113	0207	SAM-143
09/660,103	9/12/00	9/12/00	011085	0380	SAM-144
09/628,834	7/31/00	7/31/00	011034	.0889	SAM-145
09/715,679	11/17/00	11/17/00	011309	0941	SAM-146
09/679,699	10/5/00	10/5/00	011162	0163	SAM-147
09/777,756	2/5/01	2/5/01 ·	011546	0741	SAM-148
09/699,849	10/30/00	10/30/00	011272	0086	SAM-149
09/699,591	10/30/00	10/30/00	011268	0690	SAM-150
09/699,589	10/30/00				SAM-151
09/803,309	3/9/01		·		SAM-154
09/702,523	10/31/00	10/31/00	011270	0600	SAM-155
09/715,372	11/17/00	11/17/00	011326	0897	SAM-156
09/737,507	12/15/00	12/15/00	011378	0272	SAM-157 .
09/739,186	12/18/00	12/18/00	011367	0781	SAM-158
09/740,512	12/19/00	12/19/00	011404	0969	SAM-159
09/777,446	2/6/01	2/6/01	011543	0559	SAM-160
09/777,547	2/6/01	. 2/6/01	011528	0156	SAM-161

Table 1: U.S. Patent Applications (cont.)

Serial Number	Filing Date	Assignment Recordation Date	Reel	Frame	Attorney Docket Number
09/693,157	10/20/00	10/20/00	011266	0545	SAM-162
09/735,864	12/13/00	12/13/00	011372	0581	SAM-163
09/731,385	12/6/00	12/6/00	011359	0422	SAM-164
09/774,859	1/31/00	•	·	·	SAM-165
09/791,938	2/23/01	2/23/01	011578	0266	SAM-166
09/775,231	2/1/01	2/1/01	011527	0937	SAM-167
09/733,255	12/8/00	12/8/00	011357	0188	SAM-168
09/714,325	11/15/00	11/15/00	011309	0533	SAM-169
09/704,988	11/2/00	3/12/01	011593	0585	SAM-170 .
09/704,987	11/2/00	2/5/01	011516	0112	SAM-171
09/780,830	2/9/01	2/9/01	011549	0823	SAM-172
09/771,242	1/26/01	1/26/01	011494	0645	SAM-173
09/793,314	2/26/01	2/26/01	011578	0041	SAM-174
09/768,649	1/24/01	1/24/01	011478	0829	SAM-175
09/758,708	1/11/01	1/11/01	011453	0172	SAM-176
09/826,203	4/4/01				SAM-179
09/751,182	12/29/00	12/29/00	011418	0850	SAM-182
09/727,459	12/1/00	12/1/00	011359	0234	SAM-183
09/768,942	1/24/01	1/24/01	011484	0297	SAM-185
09/800,554	3/7/01	3/7/01	011589	0915	SAM-186
09/791,908	2/22/01	2/22/01	011581	0129	SAM-188
09/791,910	2/22/01	2/22/01	011581	0074	SAM-190
09/783,064	2/14/01				SAM-191
09/775,230	2/1/01				SAM-192

Table 1: U.S. Patent Applications (cont.)

Serial Number	Filing Date	Assignment Recordation Date	Reel	Frame	Attorney Docket Number
09/750,943	12/28/00	2/26/01	011542	0791	SAM-194
09/794,800	2/27/01	2/27/01	011570	0410	SAM-197
60/267,908	2/9/01				SAM-204PR
60/273,890	3/6/01				SAM-211PR

Table 2: U.S. Patents

Patent Number	Issue Date	Assignment Recordation Date	Reel	Frame	Attorney Docket Number
6,122,698	9/19/00	4/16/98	9126	0430	SAM-002
6,021,484	2/1/00	5/5/98	9212	0986	SAM-007
6,074,940	6/13/00	10/19/98	9579	0533	SAM-008
6,175,145	1/16/01	11/30/98	9621	0442	SAM-008CIP
5,973,329	10/26/99	7/6/98	9309	0670	SAM-009
6,218,715	4/17/01	9/8/98	9448	0485	SAM-013
5,929,483	7/27/99	10/23/98	9549	0096	SAM-014
6,207,519	3/27/01		·		SAM-014DV
6,148,426	11/14/00 .	4/28/98	9143	0255	SAM-017
5,999,023	12/7/99	5/14/98	9184	0606	SAM-018
6,121,893	9/19/00	8/19/98	9403	0901	SAM-019
6,028,496	2/22/00	6/3/98	9221	0020	SAM-021
6,121,825	9/19/00	9/21/98	9474	0825	SAM-022
5,943,262	8/24/99	10/28/98	9558	0696	SAM-026
6,100,764	8/8/00	1/4/99	9695	0711	SAM-027
6,147,385	11/14/00	12/22/98	9674	0988	SAM-028
6,061,270	5/9/00	12/28/98	9684	.0090	SAM-029
5,990,514	11/23/99	10/2/98	9496	0822	SAM-030
5,952,952	9/14/99	9/14/98	9448	0982	SAM-031
6,169,717	1/2/01	7/20/98	9332	0332	SAM-032
6,069,831	5/30/00	10/26/98	9549	0802	SAM-033
6,184,907	2/6/01	9/15/98	9455	0030	SAM-035
6,192,016	· 2/20/01	11/6/98	9577	0157	SAM-036
6,175,481	1/16/01	3/23/99	9850	0274	SAM-037

Table 2: U.S. Patents (cont.)

Patent Number	Issue Date	Assignment Recordation Date	Reel	Frame	Attorney Docket Number
5,991,203	11/23/99	10/27/98	9561	0574	SAM-039
6,128,693	10/3/00	9/21/98	9470	0459	SAM-040
5,936,890	8/10/99	9/29/98	9505	0924	SAM-044
6,122,188	9/19/00	12/23/98	.9680	0378	SAM-045
6,157,575	12/5/00	3/23/99	9850	0217	SAM-046
5,982,224	11/9/99	12/2/98	9629	0049	SAM-047
5,959,922	9/28/99	10/26/98	9549	0764	SAM-050
6,091,663	7/18/00	10/28/98	9560 .	0517	SAM-051
6,122,762	9/19/00	10/30/98	9568	0111	SAM-055
6,127,959	10/3/00	1/4/99	9695	0658	SAM-057
6,208,092	3/27/01	11/16/98	9592	0930	SAM-058
6,130,724	10/10/00	11/23/98	9603	0103	SAM-062
6,100,769	8/8/00	3/23/99.	9850	0038	SAM-063
6,188,060	2/13/01	4/5/99	9906	0240	SAM-064
6,141,229	10/31/00	7/8/99	010093	0403	SAM-074
6,229,362	5/8/01	6/15/99	010041	0140	SAM-077
6,172,516	1/9/01	7/9/99	.010099	0815	SAM-078
6,201,756	3/13/01	3/3/00	010659	0557	SAM-082
6,188,631	2/13/01	5/30/00	010860	0928	SAM-089
6,236,616	5/22/01	2/25/00	010636	0772	SAM-101
6,197,636	3/6/00	3/14/00	010694	0776	SAM-102

Samsung Electronics Co., Ltd., a Korean corporation, having a place of business at 416, Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea, certifies that it is the assignee of the entire right, title and interest in the U. S. patent applications identified in Table 1 above and the U. S. patents identified in Table 2 above by virtue of assignments from the inventors of the patent applications and patents, which assignments are recorded in the U. S. Patent and Trademark Office at the reels and frames identified in the tables.

The undersigned has reviewed all documents in the chain of title of the patent applications and patents identified in the tables and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Name: Jay Shim

Title: <u>Director/General Manager & General Patent Counsel</u>, Samsung Electronics Co., Ltd.

Signature

Date:

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